TRANSLATION PATENT COOPERATION TREATY POT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference				
FP-05003PC	FOR FURTHER ACTION	See Form PCT/IPEA/416		
International application No.	International filing date (day/month/	(year) Priority date (day/month/year)		
PCT/JP2005/001801	08.02.2005	09.02.2004		
International Patent Classification (IPC) or nat	ional classification and IPC	I		
Applicant	CO IMD			
ASKA PHARMACEUTICAL	CO., LID.			
This report is the international preli- under Article 35 and transmitted to the		d by this International Preliminary Examining Authority		
2. This REPORT consists of a total of		s, including this cover sheet.		
3. This report is also accompanied by A	ANNEXES, comprising:			
a. (sent to the applicant and	l to the International Bureau) a total o	f sheets, as follows:		
	-	have been amended and are the basis for this report and/or ity (see Rule 70.16 and Section 607 of the Administrative		
Instructions).	·			
1 1 -		hority considers contain an amendment that goes beyond s indicated in item 4 of Box No. I and the Supplemental		
	D			
b (sent to the International	Bureau only) a total of (indicate type	and number of electronic carrier(s))		
related thereto, in compute	, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see			
Section 802 of the Adminis		the Supplemental Box Relating to Sequence Bising (see		
4. This report contains indications relat	ing to the following items:			
Box No. I Basis of the	e report			
Box No. II Priority				
Box No. III Non-establ	ishment of opinion with regard to nove	elty, inventive step and industrial applicability		
Box No. IV Lack of un	ity of invention			
	statement under Article 35(2) with regard explanations supporting such statem	ard to novelty, inventive step or industrial applicability; sent		
Box No. VI Certain do	Box No. VI Certain documents cited			
Box No. VII Certain def	ects in the international application			
Box No. VIII Certain ob	servations on the international applicat	ion		
Date of submission of the demand	Date of comp	letion of this report		
		-		
Name and mailing address of the IPEA/JP	Authorized of	ficer		
Facsimile No.	Telephone No).		

International application No.

PCT/JP2005/001801

Box	No. I	Basis of the report		
1.		h regard to the language, this report is based on the internatio cated under this item.	nal application in the language in which	it was filed, unless otherwise
		This report is based on translations from the original langua which is the language of a translation furnished for the purp international search (Rule 12.3 and 23.1(b)) publication of the international application (Rule 12.4 international preliminary examination (Rule 55.2 and	ooses of:	,
2.	rece	th regard to the elements of the international application, this iving Office in response to an invitation under Article 14 ar report): the international application as originally filed/furnished the description:	report is based on (replacement sheets v	
		pages*		as originally filed/furnished
		pages*		-
	П	the claims:		
	ш	nos.		as originally filed/furnished
		nos.*	as amended (together with a	any statement) under Article 19
		nos.*	received by this Authority on	
		nos.*	received by this Authority on	
		the drawings:		as originally filed/furnished
		sheets*		_
		sheets*	received by this Authority on	
		a sequence listing and/or any related table(s) - see Supplem	ental Box Relating to Sequence Listing.	_
3.		The amendments have resulted in the cancellation of:		
		the description, pages		
		the claims, nos.		
		414		
		the sequence listing (specify):		
4.		This report has been established as if (some of) the amend they have been considered to go beyond the disclosure as fi	lments annexed to this report and listed	below had not been made, since
		the description, pages		
		the claims, nos.		
		the drawings, sheets/figs		
		the sequence listing (specify):		
		any table(s) related to sequence listing (specify):		
*	If ite	em 4 applies, some or all of those sheets may be marked "sup	erseded."	

International application No.
PCT/JP2005/001801

Box No. I	No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability		plicability			
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:						
	the entire international application					
\boxtimes	claims Nos. 18					
becaus	e:					
	the said international application, or the said claims Nos18 relate to the following subject matter which does not require an international preliminary examination (specify):					
	The subject	matter of claim 18 relates	to methods			
	for treatment of	the human body by therapy.				
	the description, claims or drawings (in are so unclear that no meaningful opin	ndicate particular elements below) or said claims Nos nion could be formed (<i>specify</i>):				
	the claims, or said claims Nos.		are so inadequately supported			
	by the description that no meaningful	opinion could be formed.				
	no international search report has been	n established for said claims Nos. 18				
	the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:					
	the written form	has not been furnished				
		does not comply with the standard				
	the computer readable form	has not been furnished				
		does not comply with the standard				
		nd/or amino acid sequence listing, if in computer readable for Annex C-bis of the Administrative Instructions.	orm only, do not comply with the			
	See Supplemental Box for further deta	ails.				

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Box	No. V			ticle 35(2) with regard to novelty, inventive step or industrial applicability; porting such statement	
1.	Statement				
	Novelty (N)	Claims	1-17	YES
			Claims		NO
	Inventive	step (IS)	Claims		YES
			Claims	1-17	NO
	Industrial	applicability (IA)	Claims	1-17	YES
			Claims		NO
2.	Citations and	l explanations (Rule 7	0.7)		

The following documents were cited in the international search report.

Document 1: The American Journal of Cardiology, 2002, Vol. 89, pages 1308 to 1310

Document 2: JP 2002-502869 A

Document 3: WO 2003/082283 A2

Document 4: NEW Yakurigaku (3rd Edition), Nankodo, 25 November 1996, pages 403 to 405 and 504 to 506

Document 5: European Journal of Internal Medicine, 2003, Vol. 14, pages 357 to 360

Document 6: JP 1-71813 A

Document 7: Tounyoubyou, 1994, Vol. 37, Number 1, pages 17 to 22

(1) Inventive Step of Claims 1 to 9 and 11 to 17/Document 1

Document 1 indicates that atorvastatin or simvastatin which are remedies for hyperlipemia are administered together with acarbose, which is a remedy for diabetes (table 1, page 1309, left column, lines 1 to 6).

That being the case, it would be obvious to a person

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

skilled in the art to use a pharmaceutical combining atorvastatin or simvastatin with acarbose in the treatment of hyperlipemia or diabetes.

(2) Inventive Step of Claims 1 to 9 and 11 to 17/Documents 1 to 4

In addition to the matters set forth in (1) above, documents 2 and 3 indicate that a remedy for diabetes is administered together with a remedy for hyperlipemia to treat both disorders in an integrated manner, therefore it would be obvious to a person skilled in the art to employ a hydroxymethyl-CoA reductase inhibitor such as pravastatin, a typical example as set forth in document 4, as a remedy for hyperlipemia in the invention set forth in document 1, and to employ an α -glucosidase inhibitor such as voglibose, which is a typical example as set forth in document 4, and to use the resultant pharmaceutical in the treatment of hyperlipemia or diabetes (document 2, paragraph [0006]; document 3, page 2, lines 4 to 13; page 3, lines 10 to 15; document 4, etc.).

(3) Inventive Step of Claims 1 to 17/Documents 2 to 6
With regard to phenofibrate which is a fibrate-based remedy for the treatment of hyperlipemia, document 5
indicates that phenofibrate reduces the blood-sugar level when the stomach is empty or after a meal, and document 2
indicates that phenofibrate reduces the blood-sugar level (document 2, paragraphs [0031] to [0035]; document 5, page 359, table 2).

With regard to bezafibrate, which is a fibrate

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

remedy for hyperlipemia, document 6 indicates that bezafibrate reduces the blood-sugar level when the stomach is empty or after a meal, and document 2 indicates that phenofibrate reduces the blood-sugar level (document 2, paragraphs [0031] to [0035]; document 6, entire document).

Then, as indicated in (2) above, documents 2 and 3 indicate that a remedy for diabetes and a remedy for hyperlipemia are combined in an attempt to treat both disorders in an integrated manner (see the parts of documents 2 and 3 indicated in (2) above).

That being the case, in order to produce a pharmaceutical having an outstanding effect of lowering blood-sugar levels and an effect of improving hyperlipemia, it would be obvious to a person skilled in the art to combine a fibrate compound such as phenofibrate or bezafibrate and an α -glucosidase such as voglibose, which is a foremost remedy for diabetes as set forth in document 4, taking into account documents 2, 3, 5 and 6.

Moreover, in examining the effect of lowering bloodsugar levels offered by the combined pharmaceutical of the present invention, the effect is acknowledged to be of the degree of an added effect, and no comparison is shown with a combination of a fibrate and a diabetes remedy other than metformin, therefore this effect is not acknowledged to be special.

(4) Inventive Step of Claims 1 to 17/Documents 2 to 4 and 7

Document 7 indicates that bezafibrate, a fibrate

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

remedy for hyperlipemia, is used together with sulfonylurea, which is a remedy for diabetes, to control blood-sugar levels and blood-cholesterol levels (see page 18, tables 1 and 2 and page 19, table 4).

In addition, as set forth in (2) above, documents 2 and 3 indicate that a remedy for diabetes and a remedy for hyperlipemia are combined in an attempt to treat both disorders in an integrated manner (see the parts of documents 2 and 3 indicated in (2) above).

That being the case, it would be obvious to a person skilled in the art to use an invention obtained by using an α -glucosidase inhibitor such as voglibose, which is a foremost example as set forth in document 4, as a remedy for diabetes, taking into account documents 2 and 3, in the invention set forth in document 7, in the treatment of hyperlipemia or diabetes. Moreover, with regard to remedies for hyperlipemia, it would be obvious to a person skilled in the art to use a fibrate agent such as phenofibrate, which is a typical remedy for hyperlipemia, as set forth in documents 2 and 4, as an alternative to bezafibrate, in the light of documents 2 and 3 (document 2, paragraph [0003]).

Moreover, even in reference to the description, there are no grounds to prove that the aforementioned selective matter would offer a special and marked effect which would be unexpected to a person skilled in the art.